



Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

TRANSACTIONS
OF THE
SOCIETY,
INSTITUTED AT LONDON
FOR
ENCOURAGEMENT
OF
ARTS, MANUFACTURES,
and COMMERCE;
WITH THE
PREMIUMS offered in the YEAR 1788.
VOL. VI.

L O N D O N:

PRINTED BY T. WILKINS, ALDERMANBURY.

TO BE HAD BY MEMBERS, OF THE REGISTER AT THE SOCIETY'S
HOUSE IN THE ADELPHI; AND SOLD BY

Messrs. DODSLEY, HOOPER, ROBSON, LOCKYER DAVIS, WHITE,
BECKETT, JOHNSON, CADELL, ELMSLEY, WALTER,
RICHARDSON and DEBRET.

(PRICE FOUR SHILLINGS.)

M,DCC,LXXXVIII.

Directions to the BOOKBINDER.

Place the Plate of Mr Matthew Hill's
Machine for measuring Angles to face
page 183.

The Plate of Mr Ridley's Sector depth-
ning Tool to face page 185.

The Plate of Mr Ridley's improved Sector
to face page 196.

The Plate of Mr Befant's explanation of
his Carriage to face page 203.

The Plate of Mr Befant's Carriage to face
page 209.

C O N T E N T S.

	Page
PREFACE	
Papers in Agriculture	3
Papers in Chemistry	119
Papers in Polite Arts	153
Papers in Manufactures	159
Papers in Mechanicks	183
Rewards adjudged in 1787,	211
Presents received	221
List of Officers	233
Premiums offered in 1787	237
List of Members	349
Index	391

A L I S T
O F T H E
OFFICERS OF THE SOCIETY,
And C H A I R M E N
O F T H E S E V E R A L
C O M M I T T E E S.

P R E S I D E N T.

** **R**OBERT Lord Romney, LL. D.
F.R.S.

V I C E - P R E S I D E N T S.

** Charles Duke of Richmond, &c. F.R.S.

** Hugh Duke of Northumberland, K. G.
F.R.S.

** George

232 O F F I C E R S.

** George Duke of Montague, K. G.
F. R. S.

** Jacob P. Earl of Radnor

P George Augustus Lord Heathfield, K. B.

** Honourable Charles Marsham, F. R. S.

* Edward Hooper, Esq; F. R. S.

* Owen Salisbury Brereton, Esq; F. R.
and A. S.

Sir Herbert Mackworth, Bart. F. R. S.

* James Davison, Esq;

P Sir William Dolben, Bart.

* Sir Watkin Lewes, Knt.

S E C R E T A R Y.

Mr Samuel More.

A S S I S T A N T - S E C R E T A R Y.

Mr John Samuel.

R E G I S T E R and temporary C O L L E C T O R.

Mr George Cockings.

C H A I R M E N

CHAIRMEN OF THE SEVERAL
COMMITTEES.

Elected March 22, 1788.

A C C O M P T S.

James Hebert, Esq;
Francis Stephens, Esq; F. A. S.

CORRESPONDENCE AND PAPERS.

Valentine Green, Esq; F. A. S.
Robert Dower, Esq;

P O L I T E A R T S.

Caleb Whitefoord, Esq;
John Parish, Esq; F. A. S.

A G R I C U L T U R E.

John Pratt, Esq;
Rev James Cooke.

MANU-

MANUFACTURES.

Mr Charles Smith,

Mr John Baynes.

MECHANICKS.

Joseph Hurlock, Esq; F. R. S.

* Samuel Ewer, Esq;

CHEMISTRY.

Sir John Ingilby, Bart.

Mr Edward Kendrick.

COLONIES AND TRADE.

Edward Webster, Esq;

Mr Joseph Pourcin.

MISCELLANEOUS MATTERS.

Mr Joseph Jacob,

Mr Abraham Hall.

P R E-